Network Centric Operations Industry Consortium

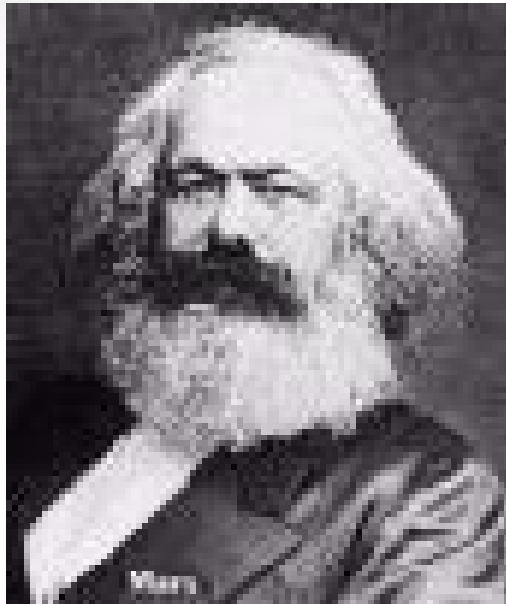## Presentation to FORCENet Conference

Thomas Mayhew
Oracle Corporation
Chairman, NCOIC Business Council

16 November 2005

www.ncoic.org

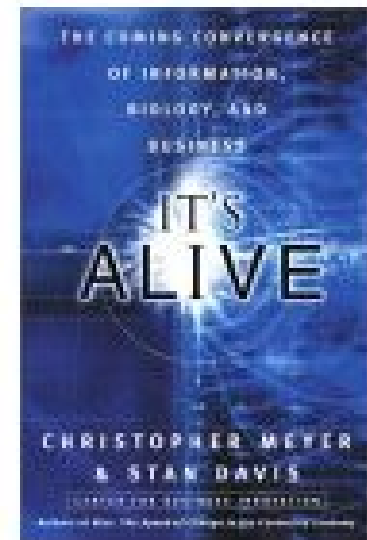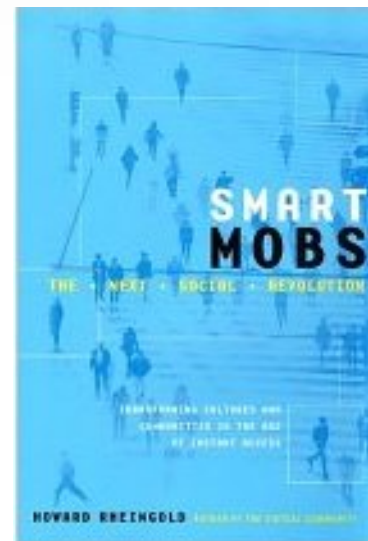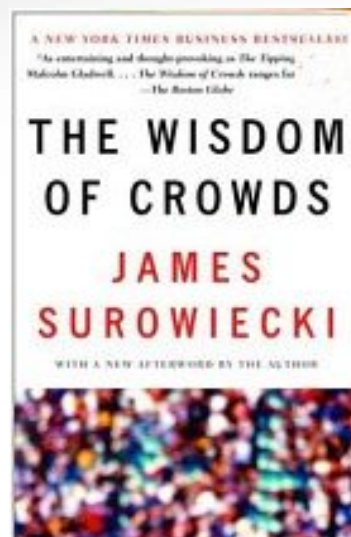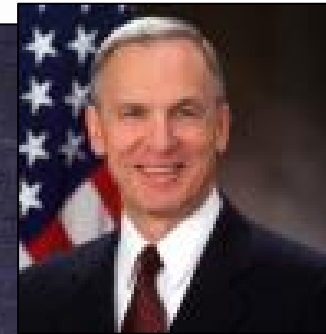# Who ARE these People?

And these?

An Emerging Business Model…

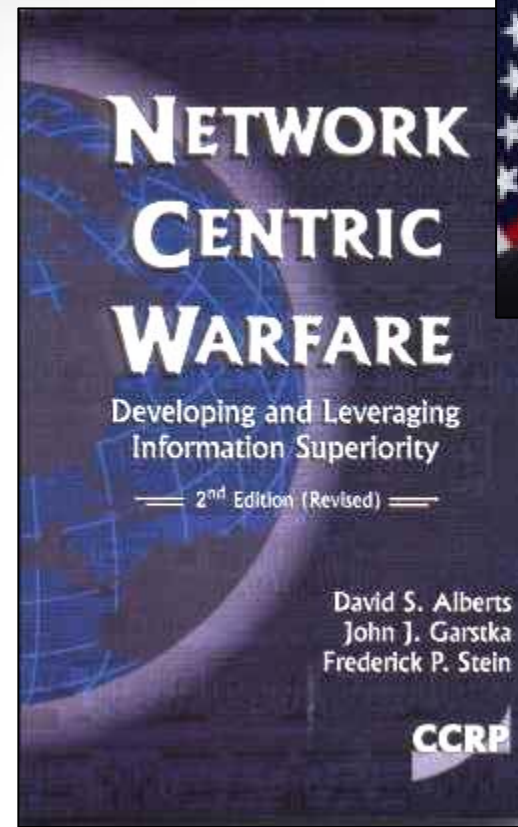# …and its Effect on Warfighting

First Responders?

The Possibilities of Collaboration

- Industry and government working together in a neutral venue to identify and endorse interoperability standards and capabilities
- Creating a two-track innovation capability similar to commercial best practices around product development and deployment
- Thinking "enterprise value chain"
- Dramatically speeding up the process of technology insertion
- Leveraging the best minds and talent across the planet rather than in isolated pockets of expertise
- Lowering the cost of capital—the world is flat!
- Out-executing our VERY networked enemy!

NATIONAL BESTSELLER

The World Is Flat

A BRIEF HISTORY OF THE TWENTY-FIRST CENTURY

Thomas L. Friedman
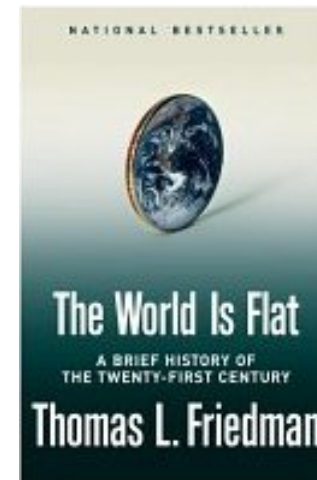
Need for Industry Participation

- NCO Foundation
  - Interoperability transcends any one company
  - Single enterprise start is necessary, but not sufficient

- Network Centric Operations Industry Consortium (NCOIC)
  - Provides basic common infrastructure – the "necessary"
  - Provides "sufficiency" through embedding common networking "DNA" in products

NCOIC Vision and Mission
Responding to the Need

- Vision:

> *Industry working together with our customers to provide a network centric environment where all classes of information systems interoperate by integrating existing and emerging open standards into a common evolving global framework that employs a common set of principles and processes.*

- The Mission of the Consortium is to help accelerate the achievement of increased levels of interoperability within, and amongst, all levels of government of the United States and its allies involved in Joint, Interagency and Multinational (JIM) operations.

NCOIC Members – October 31, 2005

Total Members: 80

Tier 1 Members (22)

- BAE Systems, Inc.
- Boeing
- Cisco Systems
- EADS
- EFW
- EMC
- General Dynamics
- Harris Corporation

- Hewlett-Packard
- IBM
- Intel Corp.
- ITT Industries
- L-3 Communications Integrated Systems
- Lockheed Martin
- Northrop Grumman

- Oracle
- Raytheon
- Rockwell Collins
- Saab
- SAIC
- Sun Microsystems
- Thales

Tier 2 Members (3)

- Alcatel Government Solutions
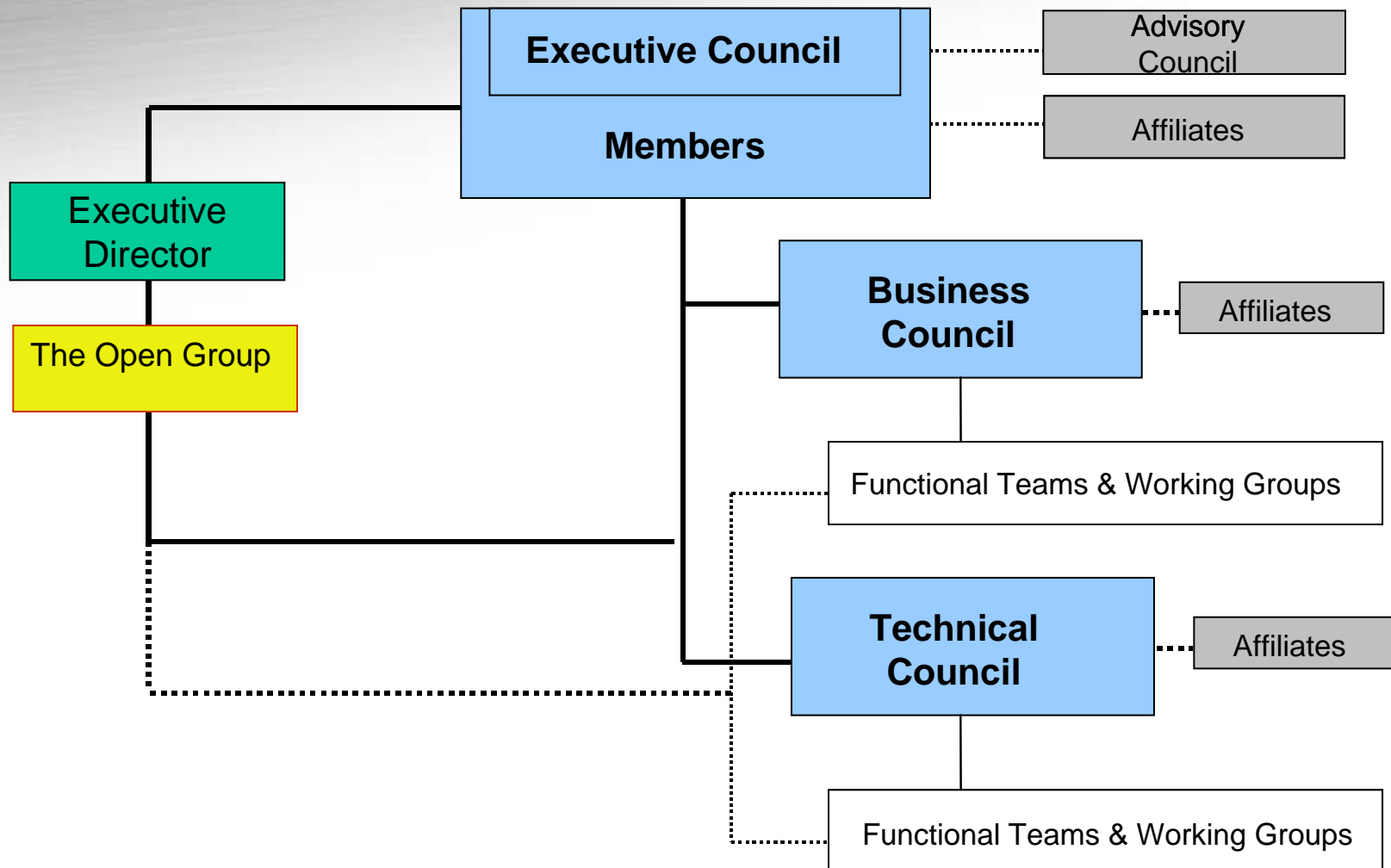- Factiva
- Israel Aircraft Industries

NCOIC Members – October 31, 2005

Total Members: 80

Tier 3 Members (55)

- The Aerospace Corporation
- AeroVironment Inc
- AFEI
- Anteon Corporation
- Argon ST
- Ball Solutions Group
- BearingPoint
- CACI
- Camber Corporation
- CB Technologies
- Ciena Government Solutions
- Cryptek, Inc
- Crystal Group
- Cubic Defense Applications
- DCN
- EDISOFT S.A.
- Engenio Information Technologies
- Ericsson
- Finmeccanica
- FlightSafety International

- Honeywell
- INDRA
- Innerwall
- Innovative Concepts, Inc
- Institute for Defense Analyses
- Instrumentoiti Oy
- International Data Links Society
- Johns Hopkins U. Applied Physics Lab
- LynuxWorks Inc.
- Marconi Communications Federal Inc
- MBL International, Ltd.
- McDonald Bradley, Inc
- Microsoft
- MITRE
- Motorola
- Objective Interface Systems, Inc.
- OrderOne Networks
- Real-Time Innovations, Inc

- Rheinmetall Defence Electronics
- RUAG Electronics
- SAP Labs, Inc.
- Sikorsky Aircraft
- Smiths Aerospace
- Software Engineering Institute/Carnegie Mellon University
- SPARTA, Inc
- SRI International
- SuprTEK
- Systematic Software Engineering A/S
- Systems Integration and Development, Inc.
- Terma A/S
- Themis Computer
- University of Maryland, CSHCN
- Wakelight Technologies, Inc
- West Virginia High Tech. Consortium Foundation
- Wind River Systems

NCOIC Operations

Executive Council

Members

Advisory Council

Affiliates

Executive Director

The Open Group

Business Council

Affiliates

Functional Teams & Working Groups

Technical Council

Affiliates

Functional Teams & Working Groups

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Who Are We?

Association for Enterprise Integration

Network Centric Operations Industry Consortium
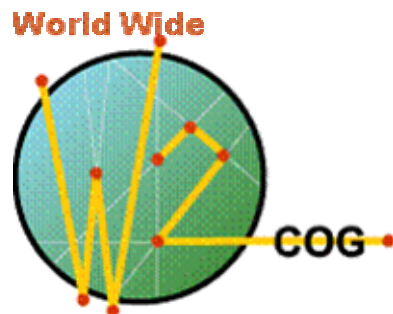
World-Wide Consortium for the Grid

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Our Common Vision

- Assist government organizations in the transformation to Network-Centric Operations

- Accelerate the pace of technological innovation in government

- Build an enterprise "substrate" of standards-based commercial technology to enable:
  - Rapid innovation ("small, fast, many")
  - Flexible business processes

- Develop a neutral ground for discussion, engineering and prototype development

- Discover, identify and adopt emerging technology innovations and trends

Key Influencing Roles

AFEI

NCOIC

W2COG

POLICY

- **Directly influence policy**
- **Produce strategy studies**
- **Promote debate and identification of standards**
- **Build community around specific topics of interest**
- **Identify early stakeholders and influencers**

ENGINEERING

- **Evaluate and recommend emerging technical and engineering standards for NCO**
- **Promote interoperability standards and processes**
- **Identify and promote re-usable building blocks for interoperable systems**

PROTOTYPING

- **Evaluate specific technologies w/rt information value added to critical mission use cases**
- **Accelerate government acquisition by offering off-the-shelf components**
- **Maintain network of experts to capture best-practice capabilities**

INTERSECTION SPACE
Rapidly Deployed, Standardized Technological Innovation

In Summary…

- An emerging collaborative business model of horizontally aligned stakeholders
- Two wars, GWOT and the War on Working Capital
- Think enterprise
- Two-track innovation model
- This is a historic endeavor!